

Elaine McCluskey

From: finley@fnal.gov
Sent: Sunday, July 04, 2004 5:17 PM
To: David Finley; Bill Foster; Vic Kuchler; Tom Lackowski; Shekhar Mishra; Dixon Bogert; Elaine McCluskey
Subject: 7/7 PD Civil Meeting

Hi, All: We will meet Wednesday July 7 at 930AM in the Small Dining Room.

From my notes from the June 30 meeting, there is no budget for Pproton Driver Civil so FESS will charge back to a Linear Collider code.
Nevertheless, I'll still call these meetings PD Civil.

There was a short discussion on whether the meeting should be moved to IB2. The functional statement was: It can be moved in January after this initial discussion phase is finished no later than December.

Jeff Sims has been dropped from the email list and Elaine McCluskey has been added.

The idea for using the Proton Fixed Target area for the 8 GeV superconducting RF linac was discussed. It may have technical problems that will eliminate it since solutions to the problems probably require spending money, at least on civil construction. These include: the required quadrupole focussing may strip the 8 GeV H-minus beam at an unacceptably large level. Also running 2 MWatt of 8 GeV beam through the existing enclosures may not be allowed. In addition to these, a careful comparision (including both construction as well as operation and maintenance) of using existing infrastructure for another purpose and of using modern infrasctructure matched to the new purpose will likely show a greenfield to be cheaper.

Wetlands information has been emailed by Tom Lackowski to the PD Civil discussion group.

A comparison of cost as a function of depth is desired first.

The 8 GeV superconducting linac will, by declaration, have the same cross section as the superconducting Engineering Test Facility linac.
They have different purposes, but that is not considered to be important for this initial discussion phase at this time.

FESS is not expected to produce a report by December.

These meetings will serve as information gathering for Bill Foster and Shekhar Mishra.

The July 7 meeting is aimed at gathering information related to siting the linac inside the Tevatron footprint. The needed items and people to provide them are:

FESS: Prints of the AP0 region.

Bill: The "fan" of beam transfer lines allowed which provide acceptable H-minus losses.

FESS: Characterization of each part of Fermilab's 6800 acres into wetlands, etc. (Part of this was provided in email by Tomski.)

Cheers. Dave.